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1 Extensions to Starburst: objects, types, functions, and rules

Guy M. Lohman, Bruce Lindsay, Hamid Pirahesh, K. Bernhard Schiefer

October 1991 **Communications of the ACM**, Volume 34 Issue 10

Full text available: pdf(5.21 MB) Additional Information: full citation, references, citings, index terms

Keywords: Extended relational database management systems, Starburst, extensible database management systems

2 On parallel processing of aggregate and scalar functions in object-relational DBMS

Michael Jaedicke, Bernhard Mitschang

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, references, citings, index terms

Nowadays parallel object-relational DBMS are envisioned as the next great wave, but there is still a lack of efficient implementation concepts for some parts of the proposed functionality. Thus one of the current goals for parallel object-relational DBMS is to move towards higher performance. In this paper we develop a framework that allows to process user-defined functions with data parallelism. We will describe the class of partitionable functions that can be processed parallelly. We will ...

Keywords: aggregates, object-relational database systems, parallel query processing, user-defined functions

3 On type systems for object-oriented database programming languages

Yuri Leontiev, M. Tamer Özsu, Duane Szafron

December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4

Full text available: pdf(346.87 KB) Additional Information: full citation, abstract, references, index terms

The concept of an object-oriented database programming language (OODBPL) is appealing because it has the potential of combining the advantages of object orientation and database programming to yield a powerful and universal programming language design. A uniform

and consistent combination of object orientation and database programming, however, is not straightforward. Since one of the main components of an object-oriented programming language is its type system, one of the first problems that ar ...

Keywords: OODB, OODBPL, object-oriented database programming language, type checking, typing

4 Searching in metric spaces with user-defined and approximate distances
Paolo Ciaccia, Marco Patella
December 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 4

Full text available: pdf(555.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Novel database applications, such as multimedia, data mining, e-commerce, and many others, make intensive use of similarity queries in order to retrieve the objects that better fit a user request. Since the effectiveness of such queries improves when the user is allowed to personalize the similarity criterion according to which database objects are evaluated and ranked, the development of access methods able to efficiently support user-defined similarity queries becomes a basic requirement. In t ...

Keywords: Distance metrics, user-defined queries

5 Optimization of queries with user-defined predicates
Surajit Chaudhuri, Kyuseok Shim
June 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 2

Full text available: pdf(400.17 KB) Additional Information: full citation, abstract, references, citings, index terms

Relational databases provide the ability to store user-defined functions and predicates which can be invoked in SQL queries. When evaluation of a user-defined predicate is relatively expensive, the traditional method of evaluating predicates as early as possible is no longer a sound heuristic. There are two previous approaches for optimizing such queries. However, neither is able to guarantee the optimal plan over the desired execution space. We present efficient techniques that are able to ...

Keywords: dynamic programming, query optimization, user-defined predicates

6 Querying web metadata: Native score management and text support in databases
Gültekin Özsoyo□lu, Ismail Sengör Altingövde, Abdullah Al-Hamdani, Selma Ayşe Özel, Özgür Ulusoy, Zehra Meral özsoyo□lu
December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4

Full text available: pdf(737.76 KB) Additional Information: full citation, abstract, references, index terms

In this article, we discuss the issues involved in adding a native score management system to object-relational databases, to be used in querying Web metadata (that describes the semantic content of Web resources). The Web metadata model is based on topics (representing entities), relationships among topics (called *metalinks*), and importance scores (sideway values) of topics and metalinks. We extend database relations with scoring functions and importance scores. We add to SQL score-manag ...

Keywords: Score management for Web applications

7 Integrating association rule mining with relational database systems: alternatives and implications

Sunita Sarawagi, Shiby Thomas, Rakesh Agrawal

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available: pdf(2.03 MB) Additional Information: full citation, abstract, references, citings, index terms

Data mining on large data warehouses is becoming increasingly important. In support of this trend, we consider a spectrum of architectural alternatives for coupling mining with database systems. These alternatives include: loose-coupling through a SQL cursor interface; encapsulation of a mining algorithm in a stored procedure; caching the data to a file system on-the-fly and mining; tight-coupling using primarily user-defined functions; and SQL implementations for processing in the DBMS. We ...

8 Query Optimization: How foreign function integration conquers heterogeneous query processing

Klaudia Hergula, Theo Härder

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, index terms

With the emergence of application systems which encapsulate databases and related application components, pure data integration using, for example, a federated database system is not possible anymore. Instead, access via predefined functions is the only way to get data from an application system. As a result, retrieval of such heterogeneous and encapsulated data sources needs the combination of generic query as well as predefined function access. In this paper, we present a middleware approach s ...

Keywords: cost model, federated database system, function integration, heterogeneous query processing, workflow management system, wrapper

9 Equal rights for functional objects or, the more things change, the more they are the same

Henry G. Baker

October 1993 **ACM SIGPLAN OOPS Messenger**, Volume 4 Issue 4

Full text available: pdf(2.61 MB) Additional Information: full citation, abstract, index terms

We argue that intensional *object identity* in object-oriented programming languages and databases is best defined operationally by side-effect semantics. A corollary is that "functional" objects have extensional semantics. This model of object identity, which is analogous to the normal forms of relational algebra, provides cleaner semantics for the value-transmission operations and built-in primitive equality predicate of a programming language, and eliminates the confusion surrounding "ca ...

10 Database programming languages: a functional approach

Jurgen Annevelink

April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data**, Volume 20 Issue 2

Full text available: pdf(1.13 MB) Additional Information: full citation, references, citings, index terms

11 A data modeling methodology for the design and implementation of information systems

Peter Lyngbaek, William Kent
September 1986 **Proceedings on the 1986 international workshop on Object-oriented database systems**

Full text available: pdf(981.90 KB) Additional Information: full citation, abstract, references, citings, index terms

Formal specifications that precisely and correctly define the semantics of software systems become increasingly important as the complexity of such systems increase. The emerging set of semantic data models which support both structural and operational abstractions are excellent tools for formal specifications. In this paper we introduce a methodology, based on an object-oriented data model, for the design and development of large software systems. The methodology is demonstrated by applyin ...

12 Classification: SQL database primitives for decision tree classifiers
Kai-Uwe Sattler, Oliver Dunemann
October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Full text available: pdf(1.50 MB) Additional Information: full citation, abstract, references, citings, index terms

Scalable data mining in large databases is one of today's challenges to database technologies. Thus, substantial effort is dedicated to a tight coupling of database and data mining systems leading to database primitives supporting data mining tasks. In order to support a wide range of tasks and to be of general usage these primitives should be rather building blocks than implementations of specific algorithms. In this paper, we describe primitives for building and applying decision tree classifi ...

Keywords: SQL-aware data mining, data mining primitives, query operators

13 Rule-based optimization and query processing in an extensible geometric database system
Ludger Becker, Ralf Hartmut Güting
June 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 2

Full text available: pdf(3.35 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Gral is an extensible database system, based on the formal concept of a many-sorted relational algebra. Many-sorted algebra is used to define any application's query language, its query execution language, and its optimiztion rules. In this paper we describe Gral's optimization component. It provides (1) a sophisticated rule language—rules are transformations of abstract algebra expressions, (2) a general optimization framework under which more specific optimization algorithms can be ...

Keywords: extensibility, geometric query processing, many-sorted algebra, optimization, relational algebra, rule-based optimization

14 An analysis of geometric modeling in database systems
Alfons Kemper, Mechtild Wallrath
March 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 1

Full text available: pdf(2.95 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The data-modeling and computational requirements for integrated computer aided manufacturing (CAM) databases are analyzed, and the most common representation schemes for modeling solid geometric objects in a computer are described. The *primitive*

instancing model, the *boundary representation,* and the *constructive solid geometry* model are presented from the viewpoint of database representation. Depending on the representation scheme, one can apply geometric transformation ...

15 Industrial sessions: database internals - II: Hosting the .NET Runtime in Microsoft SQL server

Alazel Acheson, Mason Bendixen, José A. Blakeley, Peter Carlin, Ebru Ersan, Jun Fang, Xiaowei Jiang, Christian Kleinerman, Balaji Rathakrishnan, Gideon Schaller, Beysim Sezgin, Ramachandran Venkatesh, Honggang Zhang

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Full text available: pdf(249.27 KB) Additional Information: full citation, abstract, references

The integration of the .NET Common Language Runtime (CLR) inside the SQL Server DBMS enables database programmers to write business logic in the form of functions, stored procedures, triggers, data types, and aggregates using modern programming languages such as C#, Visual Basic, C++, COBOL, and J++. This paper presents three main aspects of this work. First, it describes the architecture of the integration of the CLR inside the SQL Server database process to provide a safe, scalable, secure, an ...

16 MOCHA: a self-extensible database middleware system for distributed data sources

Manuel Rodríguez-Martínez, Nick Roussopoulos

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

Full text available: pdf(278.77 KB) Additional Information: full citation, abstract, references, citings, index terms

We present MOCHA, a new self-extensible database middleware system designed to interconnect distributed data sources. MOCHA is designed to scale to large environments and is based on the idea that some of the user-defined functionality in the system should be deployed by the middleware system itself. This is realized by shipping Java code implementing either advanced data types or tailored query operators to remote data sources and have it executed remotely. Optimized query plans push the eva ...

17 PostgreSQL--The Linux of Databases

Rolf Herzog

February 1998 **Linux Journal**

Full text available: html(31.73 KB) Additional Information: full citation, abstract, references, citings, index terms

A close look at the PostgreSQL database, including programming interfaces and using it for WWW applications

18 Aggregate predicate support in DBMS

Apostol (Paul) Natsev, Gene Y. C. Fuh, Weidong Chen, Chi-Huang Chiu, Jeffrey S. Vitter

January 2002 **Australian Computer Science Communications , Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5**, Volume 24 Issue 2

Full text available: pdf(1.57 MB) Additional Information: full citation, abstract, references, index terms

In this paper we consider aggregate predicates and their support in database systems. Aggregate predicates are the predicate equivalent to aggregate functions in that they can be used to search for tuples that satisfy some aggregate property over a set of tuples (as opposed to simply computing an aggregate property over a set of tuples). The importance of aggregate predicates is exemplified by many modern applications that require ranked search, or top-*k* queries. Such queries are the norm ...

Keywords: aggregate predicates, nearest neighbor, query optimization

19 Using the co-existence approach to achieve combined functionality of object-oriented and relational systems

R. Ananthanarayanan, V. Gottemukkala, W. Kaefer, T. J. Lehman, H. Pirahesh

June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data**, Volume 22 Issue 2

Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, citings, index terms

Once considered a novelty, object oriented systems have now entered the mainstream. Their impressive performance and rich type systems have created a demand for object oriented features in other areas, such as relational database systems. We believe the current efforts to combine object oriented and relational features into a single hybrid system will fall short of the mark, whereas our approach, the co-existence approach, has the distinction of requiring far less work, but ...

20 Data engineering for life sciences: Automatic composite wrapper generation for semi-structured biological data based on table structure identification

Liangyou Chen, Hasan M. Jamil, Nan Wang

June 2004 **ACM SIGMOD Record**, Volume 33 Issue 2

Full text available: pdf(2.00 MB) Additional Information: full citation, abstract, references

Biological data analyses usually require complex manipulations involving tool applications, multiple web site navigation, result selection and filtering, and iteration over the internet. Most biological data are generated from structured databases and by applications and presented to the users embedded within repeated structures, or tables, in HTML documents. In this paper we outline a novel technique for the identification of table structures in HTML documents. This identification technique is ...

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